

**CLIPPEDIMAGE= JP361193745A**

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**TITLE: PRODUCTION OF DIFFERENT PHASE COMPOSITE METALLIC BODY**

**PUBN-DATE: August 28, 1986**

**INVENTOR-INFORMATION:**

**NAME**

UEJIMA, YOSHIYUKI  
KASAMA, AKIO  
MIZOGUCHI, SHOZO  
KONNO, MASAHIRO

**ASSIGNEE-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
NIPPON STEEL CORP	N/A

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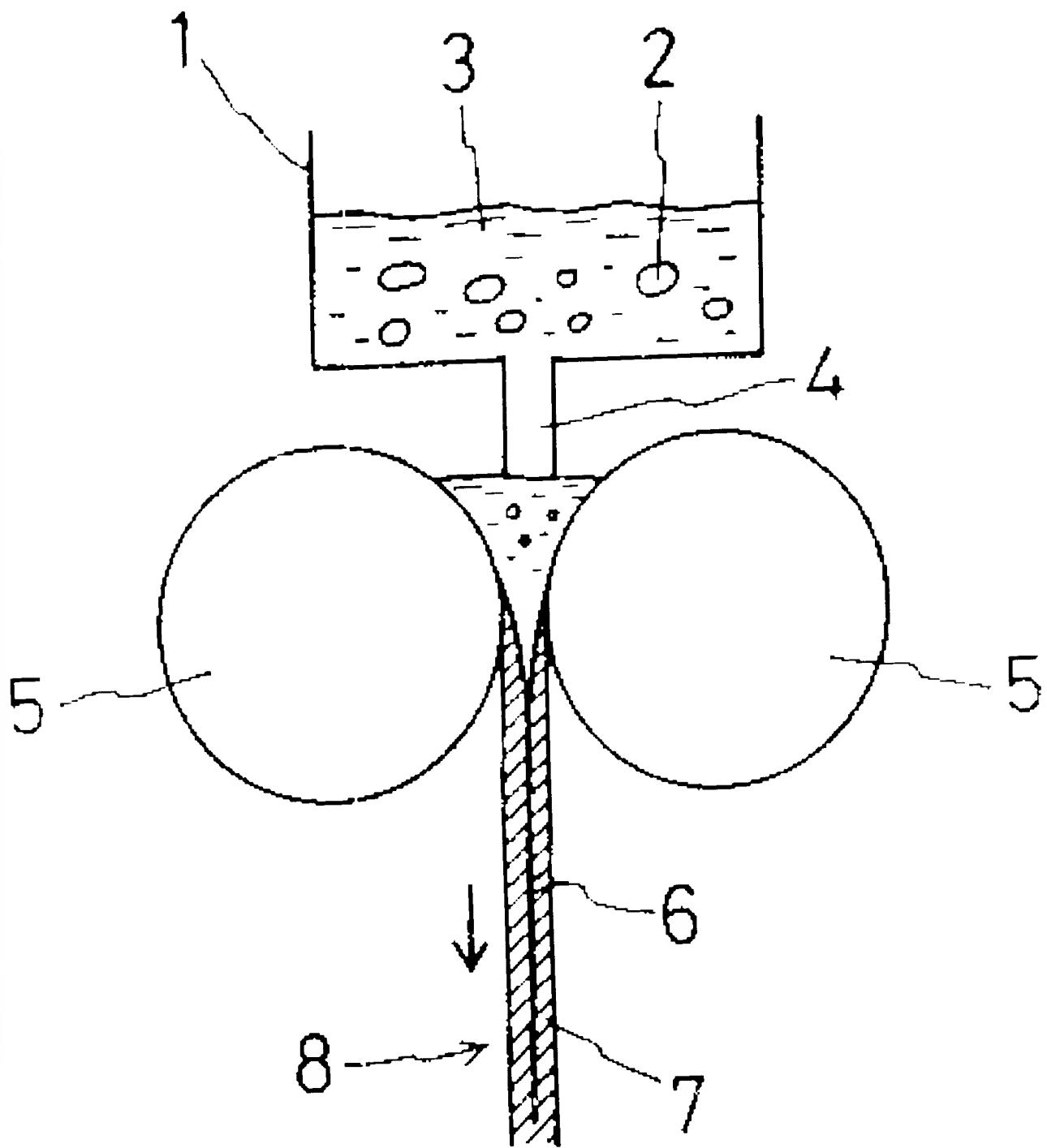
**INT-CL (IPC): B22D011/06;B22D019/16**

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**ABSTRACT:**

**PURPOSE:** To obtain a different phase composite metallic body having the compsn. different in the surface part and central part by supplying a molten metal maintained in a solid-liquid co-existing state to rolls or belts, etc. under rotation and solidifying quickly the molten metal at a cooling rate of a specific value or above.

**CONSTITUTION:** The molten steel is contained in a vessel 1 and the state where solid 2 and liquid 3 co-exist is created. The molten metal is then supplied between cooled with rolls 5, 5 under high-speed rotation from a nozzle 4. The molten steel in the solid-liquid co-existing state is quickly solidified at a cooling rate of &ge;10°C/sec to obtain the flat plate-shaped different phase composite metallic body 8 consisting of the central part 6 and the surface layer part 7. The production of the different phase composite metallic body having the excellent wear resistance of the surface by the easy method is



**thus made possible.**

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